

- Number of papers published in peer reviewed journals

(National/International)

Sr. No.	Name of Authors*	Title of Paper	Journal	Vol. No.	Page no.	Year	National/International	ISSN No.	Indexed (Y/N)	Impact factor of Journal	Citations
July-2010 to June-2011											
1	Parmar A, Patel B, Vinodkumar PC	Two photon, two gluon and radiative decays of heavy flavoured mesons	Nuclear Physics A	848	299-316	September, 2010	International	0375-9474	Y	1.986	13
2	Patel B, Vinodkumar PC	Decay properties of D and Ds mesons in coulomb plus power potential	Chinese Phys. C	34 (9)	1497	September, 2010	International	1674-1137	Y	0.266	4
3	Majethiya A, Patel B, Vinodkumar PC	Quark-diquark model description for double charm baryons	Chinese Phys. C	34 (9)	1399	September, 2010	International	1674-1137	Y	0.266	2
4	Thakore BY, Khambholja SG, Suthar PS, Bhatt NK, Jani AR	Collective modes and elastic constants of liquid Al ₈₃ Cu ₁₇ binary alloy	Chinese Physics Letters	27(9)	096203	September, 2010	International	0256-307x	Y	0.95	3
5	Vyas PR, Thakore BY, P.N. Gajjar, Jani AR	Some properties of Si, Ge and α -Sn using pseudopotential theory	Commun. In Theoretical Physics	54	573-577	September, 2010	International	0253-6102	Y	0.488	2
6	Sumesh CK, Patel KD, Pathak VM, Srivastava R	Investigation of carrier scattering mechanisms in molybdenum diselenide single crystals by Hall effect	Crystal Research and Technology	45 (9)	957-960	September 2010	International	1521-4079	Y	0.946	-

		measurements									
7	Vinodkumar PC, Patel B	Binding energy effects in the decay properties of charmonia	Chinese Phys. C	34 (9)	1411	September, 2010	International	1674-1137	Y	0.266	-
8	Patel Mayur, Patel KD, Patel CA, Patel KK, Pathak VM, Srivastava R	Temperature dependent transport and barrier properties of DVT grown WSe ₂ crystals and Schottky devices	“Prajna” Journal of pure and applied Science	18	119-122	December, 2010	National	0975 – 2595	N	-	-
9	Sumesh CK, Patel KD, Pathak VM, Srivastava R	Native Defects in MoSe ₂ Crystals Grown by Direct Vapour Transport	“Prajna” Journal of pure and applied Science	18	129-131	December, 2010	National	0975 – 2595	N	-	-
10	Patel KD, Rathod JR, Patel HS, Pathak VM, Srivastava R	Characterization of Thermally Evaporated ZnTe Thin Films	“Prajna” Journal of pure and applied Science	18	126-128	December, 2010	National	0975 – 2595	N	-	-
11	Sumesh CK, Patel KD, Pathak KD, Srivastava R	Specific contact resistance at In-nMoSe ₂ interfaces	Journal of Electron Devices	8	324-329	December, 2010	International	2412-1150	Y	-	-
12	Sumesh CK, Patel KD, Pathak VM, Srivastava R	Current transport characteristics of pSe-nMoSe ₂ heterojunction diode	Eur. Phys. J. Appl. Phys.	52 (3)	30302	December, 2010	International	1286-0050	Y	2.064	-
13	Solanki GK, Patel DB, Unadkat Sandip, Gosai NN,	Synthesis of GeTe _{0.1} Se _{0.9} single crystals and its structural and optical characterization	J. Ovonic Research,	6 (4)	173-180	2010	International	1584-9953	Y	0.435	-

	Patel RR										
14	Solanki GK, Patel KD, Patel RB, Unadkat Sandip, Patel D B, Gosai NN	Synthesis, structural and photo- electrochemical behaviour of SnSe _{0.5} - Te _{0.5} single crystals.	J. Optoelectr onics an Biomedica l Materials,	2 (3)	99-107	2010	International	1454- 4164	Y	0.412	-
15	Solanki GK, Patel DB, Unadkat Sandip, Gosai NN, Patel RR	Synthesis, structural and optical characterization of GeS _x Se _{1-x} single crystals grown by direct vapour transport technique.	Internatio nal J. Physics,	3 (1)	25-32	2010	International	1572- 9575	Y	1.184	-
16	Solanki GK, Goyal Sudeep, Gosai NN, Unadkat Sandip, Patel DB, Agarwal MK	Effect of using different transporting agents in the growth of tin monochalcogenides on its photoelectrochemical behaviour	Internatio nal Journal of Power Engineeri ng,	2 (2)	177- 189	2010	International	2314- 730X	Y	0.667	-
17	Rathod PI, Dodia K, Patel Vishal, Oza AT	Infrared spectroscopy of charge transfer complexes of elastin	Prajna-J. of pure and appl. Sciences,	18	136- 139	2010	National	0975- 2595	Y	-	-
18	Oza AT, Solanki GK, Arbinda Ray, Anand Amin	Mechanism of conduction in TTF and TMTSF organic conductors from a study of their	Ind. J. Phys	84	1529	2010	International	0019- 5480	Y	1.377	2

		vibrational spectra									
19	Solanki GK, Patel Trupti, Unadkat Sandip, Patel DB, Patel RR, Gosai NN, Yunus Gafur Mansur	Photoelectrochemical studies of mixed germanium sulphoselenide single crystals.	Journal of Science	1 (1)	39-43	2010	National	2277- 3290	N	-	-
20	Solanki GK, Patel DB, Unadkat Sandip, Agarwal MK	Synthesis and characterization of Germanium monosulphide (GeS) single crystals grown using different transporting agents	Pramana- Journal of Physics	47 (5)	813- 825	2010	International	0973- 7111	Y	0.720	-
21	Patel KD, Hingarajiya KS, Patel HS, Patel VM, Srivastava R	Studies on barriers characteristics of thin film Al/CdS schottky junction by I-V-T measurement over a wide temperature range	“Prajna” Journal of pure and applied Science	18	123- 125	2010	National	0975 – 2595	N	-	-
22	Bhatt NK, Jani AR	Anharmonic properties and sp-d hybridization in Barium at high temperatures	Prajna- J. of Pure and Applied Science	18	148- 150	2010	National	0094243 x	Y	2.168	-
23	Deshpande	Electrical transport	Prajna –	18	132-	2010	National				

	MP, Chaki SH, Pandya NN, Shah SC	properties of some mixed transition metal dichalcogenides $\text{Mo}_x\text{W}_{1-x}\text{Se}_2$ ($x = 0.3, 0.4, 0.85 \& 0.9$).	Journal of Pure and Applied Sciences		135						
24	Solanki GK	Growth, characterization and transport property measurements in SnS crystals grown using different transporting agents	International J. Mat. Sci. and Electronics Research	1 (2)	195-213	2010	International	0976-6111	Y	-	-
25	Vadkhiya L, Dashora A, Bhayani MK, Jani AR, Ahuja BL	Magnetic and electronic properties of NiAs-type chromium chalcogenides	J. of Magnetism and Magnetic Materials	322	2857-2867	2010	International	0304-8853	Y	1.970	3
26	Baria JK, Jani AR	New criteria for the selection of exchange and correlation function	Digest J. of Nanomaterials and Biostructures	5	23-27	2010	International	1842-3582	Y	0.95	-
27	Baria JK, Jani AR	Structural study of liquid alkaline earth metals- A molecular dynamics approach	Brazilian J. of Physics	40	204-209	2010	International	0103-9733	Y	0.810	-
28	Baria JK, Jani AR	Enthalpy, entropy and Helmholtz free energy of transition and rare earth liquid metals Digest	J. of Nanomaterials and Biostructures	5 (2)	317-322	2010	International	1842-3582	Y	0.95	-
29	Baria JK, Jani AR	Molecular dynamics of liquid alkaline earth	Pramana-Journal of	75	737-748	2010	International	0304-4289	Y	0.65	1

		metals near melting point temperatures	Physics								
30	Baria JK, Jani AR	The effect of temperature on elastic constants and bulk modulus	Indian J. Physics	84	1509-1516	2010	International	0973-1458	Y	1.377	-
31	Baria JK, Jani AR	Molecular dynamics of liquid alkali metals near melting temperature	J. Non-crystalline Solids	356	1696-1702	2010	International	0022-3093	Y	1.766	1
32	Baria JK, Jani AR	Lattice Dynamics of La, Yb, Ce and Th	Physica B	405	2065-2071	2010	International	0921-4526	Y	1.319	2
33	Thakor PB, Sonvane YA, Jani AR	Thermodynamical properties of 3d Transition Liquid Metals	AIP Conference Proceedings	1249	157-160	2010	International	-	-	-	-
34	Joshipura KN, Kothari HN, Shelat FA, Bhowmik Pooja, Mason NJ	Electron scattering with metastable H ₂ ⁺ molecules: Ionization and other total cross sections	Journal of Physics B Atomic Molecular and Optical Physics	43	135207	June, 2010	International	0953-4075	Y	1.98	9
35	Kothari HN, Joshipura KN	Positron scattering and ionization of neon atoms theoretical investigations	Chin. Phys. B	19	103402	18 March, 2010	International	1674-1056	Y	1.6	5
36	Sumesh CK, Patel M, Patel KD, Pathak	Low Temperature Electrical Transport Properties in p-SnSe	Eur. Phys. J. Appl. Phys.	53 (1)	10302	January, 2011	International	1286-0050	Y	2.064	-

	VM, Srivastava R	Single Crystals									
37	Patel SS, Patel TS, Brahmbhatt BH	Determination of ideality factor(η) of a photovoltaic junction	Proceedings of 7 th international conference on Trends in industrial measurements and automation	-	635-637	January, 2011	International	-	-	-	-
38	Patel MM, Patel KD, Pathak VM, Srivastava R	Design and Fabrication of High Temperature Thermoelectric Power Measurement Setup	Journal of Electron Devices	9	367-370	March, 2011	International	2412-1150	Y	-	-
39	Kothari HN, Pandya SH, Joshiyura KN	Total and ionization cross-sections of N ₂ and CO by positron impact: Theoretical investigations	Pramana, Journal of physics	76 (3)	477-488	March, 2011	International	0304-4289	Y	0.65	2
40	Sumesh CK, Patel KD, Solanki GK, Pathak VM, Srivastava R	Low temperature Hall effect studies of InSb thin films grown by flash evaporation	Eur. Phys. J. Appl. Phys.	54	10303-10307	April, 2011	International	1286-0050	Y	0.771.	-
41	Patel KK, Patel M, Patel KD, Solanki GK, Pathak VM,	Temperature dependent I-V characteristics of Ag/p-Sn _{0.2} Se _{0.8} thin film Schottky barrier diode	J. Nano Electron. Phys.	3 (1)	783-786	April, 2011	International	20776772	Y	0.194	-

	Srivastava R										
42	Vinodkumar M, Korat K, Vinodkumar PC	Computation of the electron impact total ionization cross section of C _n H(2n+1)OH molecules from the threshold to 2 keV energy range	Int. J. Mass Spectrometer.	305	26-29	May, 2011	International	1387-3806	Y	2.549	19
43	Kothari HN, Pandya SH, Joshipura KN	Electron impact ionization of plasma important SiCl _X (X = 1-4) molecules: theoretical cross sections	J. Physics B: Atomic Molecular and Optical Physics	44	125202	8 June, 2011	International	0953-4075	Y	1.98	9
44	Bhatt SV, Deshpande MP, Soni BH, Pandya NN	Chemical Synthesis and characterization of Lead Sulfide (PbS) nanoparticles	Solid State Physics :Proceedings of the 55 th DAE-Solid State Physics symposium, AIP Conf. Proc.		281-282	2011	International	9780-7354-0905-7	Y		
45	Deshpande MP, Chaki SH, Patel NH, Bhatt SV, Soni BH	Study on nanoparticles of ZnSe synthesized by chemical method.	Journal of Nano- and Electronic Physics	3(1)	193-202	2011	International	2077-6772	Y	0.442(2013)	
46	Patel KD,	Effect of substrate	J. Nano-	3 (1)	41-46	March,	International	2077677	Y	0.194	-

	Solanki GK, Panchal CJ, Hingrajiya KS, Gandhi JR	temperature on structural and morphological parameters of ZnTe thin films.	Electron. Phys.			2011		2			
47	Patel UH, Gandhi SA	Quantum Chemical studies on Crystal Structures of Sulfacetamide and Sulfasalazine	Indian Journal of Pure and Applied Physics	49	263- 269	2011	National	0975- 1041	Y	0.766	06
48	Patel KK, Patel M, Patel KD, Pathak VM. Srivastava R	Surface Characteristics of DVT Grown Tungsten Diselenide Crystals	Journal of SCI- TECH Research	2 (1)	55 – 63	2011	National	2348- 2311	N	-	-
49	Rathod PI, Patel Vishal, Oza AT	Infrared spectra of charge transfer complexes of proteoglycan	Prajna-J. of pure and appl. Sciences	19	75-78	2011	National	0975- 2595	Y	-	-
50	Patel HS, Rathod JR, Patel KD, Pathak VM, Srivastava R	MoSe ₂ / Polyaniline Solar Cells,	J. Nano- Electron. Phys.	3 (1)	741	2011	International	2077- 6772	Y	0.194	-
51	Sumesh CK, Patel KD, Pathak VM, Srivastava R	Current transport in Copper Schottky contacts to a-plane/c- plane n-type MoSe ₂	Chin. Phys. Lett.	28 (8)	087201	2011	International	1741- 3540	Y	0.731	-
52	Sumesh CK, Patel KD, Pathak VM,	Metal-Semiconductor field effect transistors fabricated using DVT	J. Nano- electron- phys.	3 (1)	709	2011	International	2077677 2	Y	0.194	-

	Srivastava R	grown n-MoSe ₂ crystals with Cu-Schottky gates.									
53	Modi BP, Patel KD	Schottky contact of Gallium on p type Silicon.	J. Nano-electron-phys.	3 (1)	684-690	2011	International	2077-6772	Y	0.194	-
54	Modi BP, Patel KD	Schottky Barrier with liquid metal	AIP Conf. Proc.	1393	117-118	2011	International	1551-7616	Y	-	-
55	Deshpande MP, Chaki SH, Patel N H, Bhatt SV, Soni BH	Study on nanoparticles of ZnSe synthesized by chemical method	J. Nano-Electron. Phys	3	186-195	2011	International	2077-6772	Y	0.442(2013)	4
56	Soni BH, Deshpande MP, Bhatt SV, Chaki SH, Kanheria H	Study on antimicrobial activity of undoped and Mn doped ZnO nanoparticles synthesized by microwave irradiation	Archives of Appl. Sci. Res.	3(6)	173-179	2011	International	0975-508x	Y		6
57	Deshpande MP, Parmar M N, Pandya NN, Bhatt SV, Chaki SH	Bandgap determination of copper doped tungsten diselenide single crystals by optical absorption method	American J. of Mater. Sci.	1(2)	149-150	2011	International	2162-9382	Y	0.765(2015)	1
58	Deshpande MP, Chaki SH, Patel JG, Bhatt SV, Garg N, Sathe VG	Study on CdS nanoparticles and nanocrystalline thin films synthesized by chemical bath deposition technique	Journal of Nanoscience, Nanoengineering and Application	1 (3)	1-9	2011	International	2231-1777	Y		

			ns.								
59	Sonvane YA, Thakor PB, Gajjar PN, Jani AR	Theoretical investigation of electronic transport properties of liquid lanthanides	ICMAT- ID ICMAT II -A	2632		2011	International	-	-	-	-
60	Nariya BB, Dasadia AK, Bhavsar DN, Jani AR	Optical properties of Cr -doped zinc selenide crystals	AIP conferenc e proceedin gs	1349	1095- 1096	2011	International	0094- 243x	Y	-	-
61	Dasadia AK, Nariya BB, Bhavsar DN, Jani AR	Hall effect, resistivity and thermoelectric power of ZrSTe crystals grown by direct vapour transport method	AIP conferenc e proceedin gs	1349	1089- 1090	2011	International	0094- 243x	Y	-	-
62	Thakor PB, Sonvane YA, Gajjar PN, Jani AR	Shear viscosity coefficient of 5d liquid transition metals	AIP conferenc e proceedin gs		937- 938	2011	International	0094- 243x	Y	-	-
63	Sonvane YA, Thakor PB, Kanawade S, Gajjar PN, Jani AR	Structural properties of some semiconductor liquid metals using charged hard sphere reference system	AIP conferenc e proceedin gs	1349	511- 512	2011	International	0094- 243x	Y	-	-
64	Thakor PB, Sonvane YA, Gajjar PN, Jani AR	Electronic transport properties of liquid lanthanides	Adv. Matt. Letts.	2(4)	303- 308	2011	International	0976- 3961	Y	1.90	-
65	Thakor PB, Sonvane YA,	Structural properties of some liquid transition	Physics and	49	530- 549	2011	International	0031- 9104	Y	0.78	16

	Gajjar PN, Jani A R	metals	chemistry of liquids								
66	Thakor PB, Sonvane YA, Gajjar PN, Jani AR	Thermodynamics of Na- based liquid binary alloy	Physics and chemistry of liquids	49 (2)	237- 246	2011	International	0031- 9104	Y	0.78	16
67	Dasadia AK, Nariya BB, Jani AR	Structural Characterization and Transport Properties of ZrSe ₃ and ZrS ₃ Crystals	Prajna-J. Pure and Applied Science	19	82-84	2011	National	0975- 2595	Y	-	-
68	Desai P, Patel DD, Bhavsar DN, Jani AR	Electrical transport properties of Tungsten Ditelluride single crystals	Prajna-J. Pure and Applied Science	19	68-70	2011	National	0975- 2595	Y	-	-
69	Jivani AR, Jani AR	Elastic constants and its pressure derivative of Boron Phosphide using higher order perturbation theory	J. Nano- Electron Physics	3 (1)	240- 242	2011	International	2076- 6772	Y	0.194	-
70	Jivani AR, Jani AR	Elastic properties of group IV semiconductors by pseudopotential approach	Int. J of Modern Physics B	25 (27)	3569- 3581	2011	International	1793- 6578	Y	-	-
71	Thakor PB, Gajjar PN, Jani AR	Thermodynamic properties of RbCs liquid binary alloy	Physics and Chemistry of liquids	49	21-23	2011	International	0031- 9104	Y	0.78	16
72	Bhavsar DN, Dasadia AK,	Electrical properties of Zirconium ditelluride	AIP conferenc	1349	1085- 86	2011	International	-	-	-	-

	Nariya BB, Bhayani MK, Jani AR	single crystals	e proceedin gs								
73	Thakor PB, Sonvane YA, Gajjar PN, Jani AR	Thermodynamics of Na- based liquid binary alloys	Physics & chemistry of liquids	49	237- 246	2011	International	0031- 9104	Y	0.78	16
74	Thakor PB, Gajjar PN, Jani AR	Themodynamical properties of RbCs liquid binary alloys	Physics & chemistry of liquids	49(1)	21-31	2011	International	0031- 9104	Y	0.78	16
75	Thakor PB, Sonvane YA, Jani AR	Structural properties of some liquid transition metals	Physics & Chemistry of Liquids	49 (3)	530 – 549	2011	International	0031- 9104	Y	0.78	16
76	Kothari HN, Joshiyura KN	Total and ionization cross-sections of N2 and CO by positron impact: Theoretical investigations	Pramana, Journal of physics	76(3)	477– 488	2011	National	0304- 4289	Y	0.65	2
77	Vinodkumar M, Limbachiya CG, Joshiyura KN, Mason NJ	Electron impact calculations of total elastic cross sections over a wide energy range – 0.01 eV to 2 keV for CH4, SiH4 and H2O	The European Physical Journal D	61	579– 585	2011	International	1434- 6079	Y	1.228	-
78	Sumesh CK, Patel KD, Pathak VM, Srivastva R	Analysis of current- voltage-temperature characteristics of In and Cu contacts on n-type MoSe ₂ single crystals	Crystal Res. Technol.	46 (1)	61-64	2011	International				
July-2011 to June-2012											
79	Solanki GK,	Growth and dielectric	Internatio	2 (2)	85-87	July-	International		Y	0.727	-

	Patel KD, Hingarajiya KS, Gosai NN	studies of $\text{SnSe}_{0.3}\text{Te}_{0.7}$ compound	nal Journal of Manufactu ring Science and Engineeri ng			Decem ber, 2011		-			
80	Vyas PS, Thakore BY, Gajjar PN, Jani AR	Elastic constants of $\text{Ga}_x\text{In}_{1-x}\text{As}$ semiconductor	AIP conferenc e proceedin gs	1349	1113- 1114	July, 2011	International	0094243 x	y	2.168	0
81	Patel KD, Patel M, Hingarajiya KS, Pathak VM, Srivastava R	Structural and Optical Properties of e-Beam Evaporated MX_2 Thin Films	AIP Conferenc e proceedin g	1349	639- 640	July, 2011	International	1551- 7616	N	-	-
82	Vinodkumar M, Bhutadia Harshad, Limbachiya Chetan, Joshiyura KN	Electron impact total ionization cross sections for H_2S , PH_3 , HCHO and HCOOH	Internatio nal Journal of Mass Spectrom etry	308	35- 40	5 August, 2011	International	1387- 3806	Y	1.972	4
83	Sumesh CK, Patel KD, Pathak VM, Srivastava R	Barrier height inhomogeneities in Cu- nMoSe_2 Schottky diode	Eur. Phys. J. Appl. Phys.	56	10103- 10109	Septem ber, 2011	International	1286- 0050	Y	0.771.	-
84	Thakkar K, Patel B,	Properties of light flavor baryons in hypercentral	Pramana J. Phys.	77	1053- 1067	Decem ber,	International	1674- 1137	Y	0.272	4

	Majethiya A, Vinodkumar PC	quark model				2011					
85	Shelat FA, Joshiyura KN, Baluja KL, Bhowmik P, Kothari HN	Electron scattering with LiH molecule including a realistic dipole potential	Indian J. Phys.	85	1739- 1748	Decem ber, 2011	International	0974- 9845	Y	0.766	2
86	Parmar A, Thakkar K, Patel B, Vinodkumar PC	Decay Widths of $B_c \rightarrow$ $J/\Psi\pi^+$ in CPP v Model	PRAJNA - Journal of Pure and Applied Sciences	19	60	Decem ber, 2011	National	0975- 2595	N	-	-
87	Vyas PS, Gajjar PN, Thakore BY, Jani AR	Elastic properties of $Ga_xIn_{1-x}P$ semiconductor	Physica B	406	4412- 4416	Decem ber, 2011	International	0921452 6	Y	0.856	0
88	Gandhi JR, Jha SN	Renewable energy based floating aeration and ozonation system for rivers and canals	J.Enviorn mental Res. & Developm ent	5 (3)	661- 663	Decem ber, 2011	National	0973- 6921		4.3	0
89	Santoki Manisha, Smitha Ratheesh, Sharma Rashmi, Joshiyura KN, Basu Sujit	Assimilation of Drifter Data in a Circulation Model of the Indian Ocean	IEEE Geoscienc e and Remote Sensing Letters	9 (1)		1 January , 2012	International	1545- 598x	Y	2.095	4

90	Solanki GK, Patel KD, Gosai NN, Patel RR	Thermal parameters of direct vapour transport (DVT) technique grown GeSePb ₀₂ single crystals	International J. Advances in Thermal sciences and Engineering	3 (1)	19-27	January -June, 2012	International	1290-0729	Y	2.47	-
91	Solanki GK, Patel DB, Mansur Yunus Gafur, Gosai NN	Growth and dielectric properties of Germanium Selenide single crystals	Recent Trends in Functional Materials Research conference Proceeding	3 (1)	38-39	April, 2012	National	-	N	-	-
92	Thakkar K, Majethiya A, Vinodkumar PC	Electromagnetic transition properties of $\Delta \rightarrow N\gamma$	Chinese Physics C	36 (5)	385-389	May, 2012	International	1674-1137	Y	0.338	4
93	Chetan Limbachiya, Joshiyura KN Krishnakumar a BE	Electron ionization of NF ₃	International Journal of Mass Spectrometry		48-54	19 May, 2012	International	1387-3806	Y	1.972	5
94	Pandya SH, Shelat FA, Joshiyura KN, Vaishnav BG	Electron ionization of exotic molecular targets CN, C ₂ N ₂ , HCN, HNC and BF—Theoretical cross sections	International Journal of Mass Spectrometry			10 June, 2012	International	1387-3806	Y	1.972	6

95	Patel AB, Khambolja SG, Bhatt NK, Thakore BY, Vyas PR, Jani AR	The Temperature Dependent Collective Dynamics of Liquid Sodium	AIP Conferenc e Proceedin gs	1447	571- 572	June, 2012	International	0094243 x	Y	-	0
96	Solanki GK, Patel KD, Gosai NN, Patel RR	Growth and thermal properties of GeSePb _{0.4} single crystals	American Institute of Physics (AIP) Conf. Proc.	1447	1063- 1064	June, 2012	International	1551- 7616	Y	-	-
97	Patel Shahera S., Patil DR, Brahmbhatt BH	A simple and reliable improved design of instrumentation based temperature controller	Internatio nal journal of innovative research and studies	2(12)	2319- 9725	Dec., 2013	International	420-433	-	-	-
98	Deshpande MP, Parmar MN, Pandya NN, Chaki SH, Bhatt SV	Studies on transport properties of copper doped tungsten diselenide single crystals	Physica - B	407	808- 812	2012	International	0921- 4526		1.319	4
99	Solanki GK, Patel KD, Patel RB, Gosai NN, Mansur Yunus Gafur	Electrical and illumination dependent PEC solar cell parameters for SnSe _{0.5} Te _{0.5} single crystals	Internatio nal Journal of Photonics	4 (3)	1-13	2012	International	-	Y	-	-

100	Chaki SH, Deshpande MP, Tailor JP, Chaudhary M D, Mahato KS	Gel growth and characterization of ADP single crystals	Amer. J. Conden. Matt. Phy.	2(1)	22-26	2012	International	2163- 1123			
101	Chaki SH, Deshpande MP, Tailor JP, Chaudhary MD, Sakariya PN	Electrical transport properties study of Mo _{0.6} W _{0.4} Se ₂ single crystals	AIP Conf. Proceedin gs	1447	987- 988	2012	International				
102	Chaki SH, Deshpande MP, Mahato KS, Chaudhary M D, Tailor JP	Synthesis and characterization of CuS nanowhiskers	Adv. Sci. Letts.	17	162- 166	2012	International	1936- 7317		1.25(201 0)	3
103	Thakore BY, Vahora AY, Khambholja SG, Bhatt NK, Jani AR	Pressure Induced Structural Phase Transition in SrS	Journal of Physics, Conferenc e Series	377	012064 (04)	2012	International	1742- 6588	Y	0.00	0
104	Solanki GK, Patel DB, Patel KD, Gosai NN, Mansur Yunus Gafur	Growth and dielectric properties of DVT grown GeS _{0.25} Se _{0.75} single crystals	Physical Chemistry	2 (5)	67-72	2012	International	1932- 7447	Y	4.814	-
105	Soni BH, Deshpande	X-ray diffraction, X-ray Photoelectron	Journal of applied	79	907- 912	2012	International	0021- 9037	Y	0.476(20 14)	7

	MP, Bhatt SV, Chaki SH, Sathe VG	pectroscopy and Raman spectroscopy of undoped and Mn doped ZnO nanoparticles prepared by Microwave irradiation.	Spectroscopy								
106	Deshpande MP, Chaki SH, Pandya NN, Sakariya PN, Bhatt SV	Study on transport properties of Bi ₂ Se ₃ single crystals grown by vapour phase technique	Synthesis and reactivity in inorganic metal-organic and Nano-metal chemistry	42	1418-1425	2012	International	1553-3174	Y	0.533(2014)	1
107	Chaki SH, Deshpande MP, Trivedi DP, Tailor JP, Chaudhary MD, Mahato KS	Wet chemical synthesis and characterisation of SnS ₂ nanoparticles.	Applied Nanoscience		DOI:10.1007/s13204-012-0123-7	2012	International	2190-5517	Y		
108	Chaki SH, Deshpande MP, Tailor JP, Mahato KS, Chaudhary MD	Wet chemical synthesis and characterization of MnS nanoparticles	Advance Material Research	584	243-247	2012	International	1622-8958	Y		10
109	Jivani AR, Jani AR	Prediction of some mechanical and vibrational properties of GaX (X=P, As, Sb)	Turkish Journal of Physics	36 (2)	215	2012	International	1303-6122	Y	2.652	-

110	Baria JK, Jani AR	Thermodynamics of liquid alkali metals using pseudopotential Perturbation scheme	Turkish Journal of Physics	36 (2)	179	2012	International	1303-6122	Y	2.652	-
111	Sharma Y, Vadkhiya L, Bhayani MK, Jain R, Jani AR, Ahuja BL	Electronic structure, optical propertie and Compton profiles of Bi ₂ S ₃ and Bi ₂ Se ₃	Solid State Sciences	14 (2)	41-49	2012	International	1293-1558	Y	1.839	-
112	Shah DB, Pandya MR, Trivedi HJ, Jani AR	Estimation of minimum and maximum air temperature using MODIS data over Gujarat	J. Agrometerology	14(2)	111-118	2012	International	0972-1665	Y	0.15	1
113	Sonvane YA, Thakor PB, Jani AR	Theoretical investigation of Thermodynamical and structural properties of 3d liquid transition metals using different-Reference system	Int. Scholarly Research Network (ISRN) Thermodynamics	Article ID 90468		2012	International	-	-	-	-
114	Sonvane YA, Thakor PB, Jani AR	Atomic transport and surface properties of some simple liquid metal using one component plasma system	J. of Theoretical and Applied physics	6	43-48	2012	International	1735-9325	Y	-	-
115	Thakor PB, Souvane YA, Patel HP, Jani AR	Structural properties of liquid lanthanides using charge hard sphere reference system	Proc. of Solid State Physics	1447	557	2012	International	0094-243x	Y	2.168	0

			AIP Conf. Proc.								
116	Baria JK, Jivani AR, Vyas PS, Jani AR	Structural studies of liquid rubidium at various temperatures	Proc. of Solid State Physics AIP Conf. Proc.	1447	535	2012	International	0094-243x	Y	2.168	0
117	Thakor PB, Souvane YA, Jani AR	Electronic transport properties of some liquid semiconductors	Proc. of Solid State Physics AIP Conf. Proc.	1447	917	2012	International	0094-243x	Y	2.168	0
118	Thakor PB, Souvane YA, Jani AR	Atomic transport properties of 3d liquid transition	Metals Proc. of Solid State Physics AIP Conf. Proc.	1447	915	2012	International	0094-243x	Y	2.168	0
119	Pandya SH, Joshipura KN	Cometary Coma and Electron Impact Process: A Model Approach	Asteroids, Comets, Meteors			2012	International	-	-	-	-
120	Kothari HN, Joshipura KN, Minaxi Vinodkumar, Kirti Korot	Scattering of low energy electrons with SiCl ₂ molecule by R matrix methodology	IOP Publishing Journal of Physics: Conference Series	388		2012	International	-	-	-	-
121	Kothari HN, Pandya SH,	Electron impact ionization of Si and	IOP Publishing	388	052049	2012	International	-	-	-	-

	Joshiपुरa KN	SiCIX (X=1-4) targets: Theoretical investigations	Journal of Physics: Conference Series								
122	Bhowmik Pooja, Joshipura KN, Pandya SH	Electron impact cross sections for surrogates of DNA sugar phosphate backbone	IOP Publishing Journal of Physics: Conference Series	388	052048	2012	International	-	-	-	-
123	Pandya SH, Joshipura KN	Electron impact processes in the Earth's ionosphere – Micro-to-macro approach	IOP Publishing Journal of Physics: Conference Series	388	052034	2012	International	-	-	-	-
124	Vaishnav BG, Joshipura KN, Pandya SH	Electron inelastic mean free paths in Ti, TiC, TiN and TiO ₂ : A Theoretical Approach	IOP Publishing Journal of Physics: Conference Series	388	052076	2012	International	-	-	-	-
125	Pandya SH, Vaishnav BG, Joshipura KN	Electron inelastic mean free paths in solids: A theoretical approach	Chin. Phys. B	21(9)	093402	2012	International	0368-2048	Y	1.44	39
126	Patel PR, Patel KR, Pathak VM	Growth and characterization of WSe ₂ single crystals	J. Advances in Development Research	3 (1)	127-132	2012	International	0976-4704	-	-	-
127	Patel PR, Pathak VM	Growth, structural and thermoelectric	ISRO J. Electrical	2 (6)	44-46	2012	National	2320-3331	-	-	-

		properties of tungsten diselenide crystals	and Electronic Engg.								
July-2012 to June-2013											
128	Shah M, Parmar A, Vinodkumar PC	Leptonic and digamma decay properties of S-wave quarkonia states	Physical Review D	86	034015	August, 2012	International	1550-7998	Y	4.558	10
129	Solanki GK, Patel YA, Agarwal MK	High pressure studies of as grown WX _{2-x} single crystals	Institute of Physics (IOP) Journal of Physics, Conference Series	377	012017	August, 2012	International	1361-648X	Y	-	-
130	Patel UH, Patel BD, Shah DA	Quantum chemical studies on crystal structure of 1, 1' sulfonyldiimidazole	International Journal of Applied Sciences and Engineering Research,	1 (4)	595-603	August, 2012	International	2277-9442	Y	--	00
131	Patel UH, Gandhi SA, Barot VM, Patel MC	3-(2-Chloro-3-hydroxy-4-Methoxy-phenyl)-1-(4,5-dimethoxy-2-methyl-phenyl)propanone	Acta Crystallographica Section E	E68	2926-2927	06 September, 2012	International	2056-9890	Y	0.347	07
132	Solanki GK, Patel KD, Gosai NN, Patel Vimal	Growth and electrical characterization of GeSeFe _{0.02} single crystals	Research Journal of Chemical Science	2 (9)	30-36	September, 2012	International	2231-606X	Y	-	-

133	Hattami Arwa A AL, Ebtesam A. Kadash, Patel HS, Rathod JR, Patel K D, Pathak VM, Srivastava R	Structural And Optical Properties Of Thermally Evaporated Cds Thin Films	Indian Streams Research Journal	2 (8)		September, 2012	International	2230-7850	-	1.7604	-
134	Solanki GK, Patel KD, Gosai NN, Patel RB	Growth and dielectric properties of SnSe _{0.5} Te _{0.5} crystals	Research Journal of Chemical Science	2 (10)	43-48	October, 2012	International	2231-606X	Y	-	-
135	Mahatha SK, Patel KD, kumar Krishna S, Menon R	Electronic structure investigation of MoS ₂ and MoSe ₂ using angle-resolved photoemission spectroscopy and ab initio band structure studies	J. Phys.: Condens. Matter	24 (47)	5	October, 2012	International	0953-8984	Y	2.355	-
136	Patel UH, Patel BD, Shah DA	Synthesis and crystal structure determination of 2-Amino-1(4-Bromophenyl)-5-oxo-4, 5-dihydro-1-H-pyrrole-3-carboxylic acid ethyl ester	International Journal of Applied Sciences and Engineering Research	1 (6)	755-762	December, 2012	International	2277-9442	Y	--	00
137	Pathak VM, Patel KD	Two dimensional semiconductor alloys: Monolayer Mo _{1.5} W _x Se ₂	Applied Physics Letters	104	12101-12104	January, 2013	International	0003-6951	Y	3.515	-

138	Joshi Mitesh, Manjul Kumar, Gajjar PN, Thakore BY, Jani AR	Electrical Resistivity of liquid Al-Mg binary alloys	Advanced Materials Research	665	76 (2)	Februar y, 2013	Internationa l	1662-8985	Y	0.00	0
139	Patel SJ, Vahoraa AY, Thakore BY, Jani AR	Comparison of Certain Local Pseudopotentials and A New Proposal	Advanced Materials Research	665	70 (2)	Februar y, 2013	Internationa l	1662-8985	Y	0.00	1
140	Bhatt NK, Patel AB, Vahora AY, Vyas PB, Thakore BY, Jani AR	Structural and Vibrational Properties of FeO using First- Principles	Advanced Materials Research	665	49 (2)	Februar y, 2013	Internationa l	1662-8985	Y	0.00	0
141	Pathak VN, Mistry Prashant, Patel Mayur, Hingarajiya Keyur, Solaki GK, Pathak VM, Patel KD	Characterization of SnSePb _{0.1} thin films deposited by flash evaporation Technique	Advanced Materials Research	665	311- 316	Februar y, 2013	Internationa l	1662- 8958	Y	-	1
142	Patel KK, Patel KD, Patel Mayur, Hingarajiya KS, Pathak VM	Investigations On Tin Selenide Thin Film Based Schottky Barrier Diodes By I-V-T Method	Advanced Materials Research	665	297- 301	Februar y, 2013	Internationa l	1662- 8958	Y	-	1
143	Gandhi JR,	Structural and Electrical	Advanced	665	80-84	Februar	Internationa		Y	-	1

	Patel KD, Solanki GK	Properties of ZnTe Thin Films Deposited at Various Substrate Temperatures	Materials Research			y, 2013	l	1662-8958			
144	Patel RR, Solanki GK, Gosai NN, Patel RB	DVT Grown GeSe Single Crystals and Their Thermal Parameters in N ₂	Advanced Materials Research	665	8-14	Februar y, 2013	Internationa l	1662-8958	Y	-	1
145	Solanki GK, Patel DB, Unadkat Sandip, Gosai NN, Mansur Yunus Gafur	Growth, Structural and High Pressure Study of GeS _{0.25} Se _{0.75} and GeS _{0.75} Se _{0.25} Single Crystals	Advanced Materials Research	665	37-42	Februar y, 2013	Internationa l	1662-8958	Y	-	1
146	Gosai NN, Solanki GK, Patel KD, Hingarajiya KS	Structural and Thermal properties of Cu doped Nanocrystalline Tin Selenide	Advanced Materials Research	665	15-21	Februar y, 2013	Internationa l	1662-8958	Y	-	1
147	Patel RB, Solanki GK, Patel Vimal M, Gosai NN, Patel RR, Mansur Yunus Gafur	Growth and Optical Characterization of DVT Grown SnSe _{0.5} Te _{0.5} Single Crystals	Advanced Materials Research	665	29-36	Februar y, 2013	Internationa l	1662-8958	Y	-	1
148	Gandhi JR, Jha SN	Water pollution control system through	J. Environm	7(4A)	1639- 1643	March, 2013	Internationa l	0973--		4.3	

		renewable power for lakes, ponds and STP's	ental Research and Development					6921			
149	Suthar PH, Gajjar PN, Thakore BY, Jani AR	Study of phonon modes and elastic properties of $Sc_{36}A_{124}Co_{20}Y_{20}$ and $Gd_{36}A_{124}Co_{20}Y_{20}$ rare-earth bulk metallic glasses	Journal of Physics: Conference Series	423	012030 (4)	April, 2013	International	1742-6588	Y	0.00	0
150	Chaki SH, Deshpande MP, Trivedi DP, Tailor JP, Chaudhary MD, Mahato KS	Wet chemical synthesis and characterization of SnS2 nanoparticles	Applied Nanoscience	3	189-195	April, 2013	International	2190-5517	Y		
151	Vahora AY, Chaudhari Prakruti, Bhatt NK, Thakor BY, Jani AR	Phase transition and shock Hugoniot of MgO using tight-binding model	AIP Conf. Proc	1536	421	June, 2013	International	0094243x	Y	-	0
152	Chaki SH, Deshpande MP, Mahato KS	Growth and microtopographic study of CuAlS2 single crystals	AIP Conf. Proc.	1536	833-834	June, 2013	International		Y		
153	Vaghela MV, Vahora AY, Bhatt NK, Thakore BY, Jani AR	Concentration dependence of pair correlation function and bulk modulus of liquid Al_xCu_{1-x} alloys	AIP Conf. Proc.	1536	637	June, 2013	International	0094243x	Y	-	0

154	Pathan TK, Patel AB, Bhatt NK, Thakore BY, Jani AR	Phonon dispersion of noble metal: Copper as a prototype	AIP Conf. Proc.	1536	425	June, 2013	International	0094243x	Y	-	0
155	Patel AB, Bhatt NK, Thakore BY, Jani AR	Frequency moments and elastic moduli of liquid rubidium at different temperatures	AIP Conf. Proc.	1536	589	June, 2013	International	0094243x	Y	-	3
156	Joshi RH, Patel AB, Bhatt NK, Thakore BY, Jani AR	Shock Hugoniot and High Pressure Melting Curve for CaF ₂	AIP Conference Proceedings	1536	841-842	June, 2013	International	0094243x	Y		
157	Limbachiya Chetan , Minaxi Vinodkumar, Swadia Mohit, Barot Avani	Electron impact total cross section calculations for CH ₃ SH (methanethiol) from threshold to 5 keV	Molecular Physics: An International Journal at the Interface Between Chemistry and Physics			11 June, 2013	International				
158	Pandya SH, Joshiura KN	Electron Density and ion production rate calculations over the martian atmosphere	44th Lunar and Planetary Science Conference (2013)			2013	National			Conf. pro	
159	Deshpande	Study on CdSe	Advance	665	267-	2013	International	1622-8958	Y		

	MP, Garg N, Bhatt SV, Soni BH, Chaki SH	Nanoparticles Synthesized by Chemical Method	Material Research		282		1				
160	Chaki SH, Deshpande MP, Chaudhary MD, Mahato KS	Synthesis and characterisation of tin monosulphide nanoparticles	Advance Science Engineering and Medicine	5	285-290	2013	International	2164-6627	Y	0.987(2015)	5
161	Chaki SH, Deshpande MP, Chaudhary MD, Tailor JP, Mahato KS	Synthesis and electrical transport properties of SnS nanoparticles.	57 th DAE-Solid State Physics symposium 2012. AIP Conference Proceeding	1512	966-967	2013	International				1
162	Chaki SH, Deshpande MP, Tailor JP, Chaudhary MD, Mahato KS	Study of surface microstructure and optical properties of as grown $\text{Mo}_{0.6}\text{W}_{0.4}\text{Se}_2$ single crystals	57 th DAE-Solid State Physics symposium, AIP Conference Proceeding	1512	822-823	2013	International				
163	Deshpande MP, Bhatt SV, Sathe	Raman scattering in 2H-MoS ₂ single crystal.	57 th DAE-Solid State	1512	808-809	2013	International				1

	VG, Soni BH, Garg N, Chaki SH		Physics symposiu m, AIP Conferenc e Proceedin g								
164	Sunil H Chaki, MP Deshpande, Tailor JP	Thermal decomposition study of $\text{Mo}_{0.6}\text{W}_{0.4}\text{Se}_2$ single crystals	American Institute of Physics Conferenc e Series		831- 832		Internationa l				1
165	Parimal Trivedi, Bhavsar DN, Patel RG, Oza AT	Spectroscopic Study of Charge Transfer Complexes of Biphenyl	Mol. Cryst. Liq. Cryst	577	127- 142	2013	Internationa l	1542-1406	Y	0.58	-
166	Dodia KJ, Oza AT	FTIR Spectra of Hydrogen-Bonded Inclusion Compounds of Iodine	Mol. Cryst. Liq. Cryst	575	152- 172	2013	Internationa l	1542-1406	Y	0.58	-
167	Padhyar Ashvin, Patel AJ, Oza AT	Infrared spectra of charge transfer of biocytin with organic acceptors	Mol. Cryst. Liq. Cryst.	577 (1)	127- 142	2013	Internationa l	1542-1406	Y	0.58	-
168	Dodia KJ, Oza AT	FTIR Spectra of Lead Phthalocyanine Hydrogen Bonded With Six Dyes	J. App. Spectrosc opy.	80 (6)	854- 858	2013	Internationa l	0021-9037	Y	0.476	1
169	Patel UH,	1-[3-(2-Benzyloxy-6-	Acta	E69	840	2013	Internationa	2056-9890	Y	0.347	02

	Gandhi SA, Barot VM, Varma NVS	hydroxy 4- methylphenyl)-5-[3,5- bis(trifluoromethyl)- phenyl]-4,5-dihydro-1H- pyrazol-1-yl] propane-1- one	Crystallog raphica Section E				1				
170	Patel UH, Gandhi SA, Patel BD, Modh RD, Patel RH, Yadav J, Desai KR	Synthesis, characterizations, molecular structure and DFT studies of 4- benzylidene-2-(2- chloro-phenyl)-5- methyl-2, 4-dihydro- pyrazol-3-one	Indian Journal of Pure and Applied Physics	51	819- 826	2013	National	0975-1041	Y	0.766	01
171	Patel UH, Gandhi SA, Barot VM, Patel MC	Synthesis, Spectroscopic Investigations, Quantum Chemical Studies (Ab- initio & DFT) and Antimicrobial Activities of 3-(3-Chloro-4,5- dimethoxy-phenyl)-1-(4, 5-dimethoxy-2-methyl- Phenyl) prop-2-en-1-one	Crystal structure theory and applicatio ns (CSTA) Journal,	2 (4)	167- 175	2013	Internationa l	2169-2505	Y	0.51	05
172	VM Barot, SA Gandhi, Patel UH, A Mahato, Mehta NB	Synthesis, X-ray diffraction study and Antimicrobial study of 1-(4-butoxy-2- hydroxyphenyl)-3-(3- bromophenyl) prop-2- en-1-one	Internatio nal Journal of Scientific and Research Publicatio ns,	3 (2)	1-4	2013	National	2250-3153	Y	2.04	00
173	Soni BH, Deshpande	Studies on ZnO Nanorods Synthesized	J. of Nano and	5(4)	1-6	2013	Internationa l	2077-6772	Y	0.442	1

	MP, Bhatt SV, Garg N, Chaki SH	By Hydrothermal Method and Their Characterization	Electro. Phys.								
174	Deshpande MP, Garg N, Patel KR, Bhatt SV, Kaheriya H, Bose A	Antimicrobial activity of CdSe nanoparticles synthesized by chemical route	Archives of Physics Research	4(5)	32-39	2013	International	0976-0970	Y		
175	Deshpande MP, Garg N, Bhatt SV, Sakariya PN, Chaki SH	Spectroscopy and structural study on CdSe thin films deposited by chemical bath deposition	Advanced Materials Letters	4 (11)	869-874	2013	International	0976-3961	Y		
176	Deshpande MP, Garg N, Bhatt SV, Sakariya PN, Chaki SH	Characterisation of CdSe thin films deposited by chemical bath solutions containing triethanolamine	Materials Science in Semiconductor Processing	16	915-922	2013	International	1369-8001	Y	1.806	15
177	Bose A, Keharia H, Deshpande MP	Eco-Friendly Phyto-Synthesis of Silver Nanoparticles using Jatropha Seedcake Extract	Chin. Phys. Lett.	30 (12)	128103	2013	International	1741-3540	Y	0.947	
178	Nariya BB, Dasadia AK, Jani AR	Growth, Microtopography and effect of pressure on electrical resistance of DVT grown SnS and SnSe single crystals	J. Opt. Ele. and Advan. Mat.	7 (1-2)	53-57	2013	International	1454-4164	Y	0.43	-
179	Dasadia AK, Nariya BB,	Growth and electrical properties of ternary	J. Opt. Ele. and	7 (1-2)	70-73	2013	International	1454-4164	Y	0.43	-

	Jani AR	ZrSTe crystals	Advan. Mat.								
180	Jivani AR, Jani AR	Concentration Dependent Physical Properties of SiSn Solid Solution	Advanced Materials Research	665	150-153	2013	International	1662-8958	Y	-	-
181	Thakor PB, Sonvane YA, Patel JJ, Jani AR	Theoretical Investigation of Electrical Transport of Co-Cr liquid Binary Alloy	Advanced Materials Research	665	132-135	2013	International	1662-8958	Y	-	-
182	Thakor PB, Sonvane YA, Jani AR	Theoretical Investigation of atomic transport properties of 4d transition metals in liquid phase	Advanced Materials Research	665	136-142	2013	International	1662-8958	Y	-	-
183	Sonvane YA, Patel JJ, Thakor PB, Gajjar PN, Jani AR	Concentration depended thermodynamic properties of Fe-Co liquid binary alloy	Advanced Materials Research	665	143-149	2013	International	1662-8958	Y	-	-
184	Jivani AR, Baria JK, Vyas PS, Jani AR	Elastic constant and pressure derivative of elastic constants of Si _{1-x} Ge _x solid solution	Proc. of Solid State Physics AIP Conf. Proc.	1512	1062-1063	2013	International	0094-243x	Y	2.168	-
185	Bhavsar DN, Jani AR	Transport, Electrical and Microtopography Studies of W ₃ Se ₄ Single Crystals	Proc. of Solid State Physics	1512	872-873	2013	International	0094-243x	Y	2.168	-

			AIP Conf. Proc.								
186	Patel PR, Pathak VM	Study of the WSe ₂ layered compound semiconductors useful for photoelectrochemical solar cells	American J. Materials Sci. & Technol.	3	56-64	2013	International	2163-2139	-	-	-
187	Patel PR, Patel KD, Pathak VM	Surface characterizations using optical microscope and atomic microscope of WSe ₂ crystals	J.Adv. Phys.	2	104-110	2013	International	2168-1996	-	-	-
188	Patel PR, Patel HS, Rathod JR, Patel KD, Pathak VM	Growth, structural and electrical characterization of tungsten diselenide crystals grown by DVT technique	American J. Condensed Matter Physics	3 (1)	13-20	2013	International	2163-1123	-	-	-
189	Patel PR, Rathod JR, Patel HS, Patel KD, Pathak VM	Structural and optical characterization of tungsten diselenide crystals grown by DVT technique	Adv. Materials Research	665	53-57	2013	International	1662-8985	-	-	-
190	Patel PR, Pathak VM	Electronic structure of WSe ₂ band structure calculation and photoelectron spectroscopy	J.Adv. Phys.	2	63-69	2013	International	2168-1996	-	-	-
191	Hattami A AL, Rathod JR, Kadash EA, Patel HS,	Physical characteristics of Al/n-CdS thin film Schottky diodes at high temperatures	Int. J. Technology	2	121-128	2013	International	2086-9614	-	0.625	-

	Patel KD, Pathak VM										
192	Kadash EA, Hattami Arwa A AL, Patel HS, Rathod JR, Hingrajiya KS, Patel K D, Pathak VM, Srivastava R	Surface studies of PVT grown CdS crystals	Advanced Materials Research	665	202- 209	2013	Internationa l	1662-8985	-	-	-
July-2013 to June-2014											
193	Patel UH, Modh RD, Shah DA	5-(4-Chlorophenyl)-7-(4- methylphenyl)-4- (pyrrolidin-1-yl)-7H- pyrrolo[2,3-d]pyrimidine	Acta Crystallog raphica Section E	E69	O1286- o1287	10, July, 2013	Internationa l	2056-9890	Y	0.347	00
194	Soni BH, Deshpande MP, Bhatt SV, Garg N, Pandya NN, Chaki SH	Influence of Mn doping on optical properties of ZnO nanoparticles synthesized by microwave irradiation	Journal of Optics	42(4)	328 – 334	October - Decem ber, 2013	Internationa l	2040-8986	Y	2.059	
195	Khambholja SG, Suthar PH, Thakore BY, Bhatt NK, Gajjar PN	Thermodynamic Stability of SiC	Proc. Nat conf. on emetreeng tch and manage			Februar y, 2014	National	978-81- 923049-9- 1	N	-	-
196	Patel AB, Bhatt NK, Thakore BY, Jani AR,	Electrical Transport Properties of Liquid Na at Different Temperatures	Proc. Nat conf. on emetreeng tch and			Februar y, 2014	National	978-81- 923049-9- 1	N	-	-

	Khambholja SG		manage								
197	Patel CH, A. B. Patel, Bhatt NK, Thakore BY, Gajjar PN	Concentration Dependent Electrical Transport Properties of Binary Al _{1-x} Ga _x Alloys	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	--
198	Vahora AY, Joshi RH, Bhatt NK, Thakore BY, Chaudhari PC	High Pressure Melting Curve of Alkaline Earth Oxides	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	-
199	Vyas PR, Bhatt NK, Joshi RH	Pressure driven instability in Sodium	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	-
200	Bhatt NK, Patel AB, Jani AR, Vyas PR	High Pressure Melting of Na	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	-
201	Joshi RH, Vahora AY, Bhatt NK, Thakore BY, Jani AR	Shock Hugoniot and High Pressure Melting Curve for NbC	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	-
202	Chaudhari PC, Vohra A,Y, Patel AB, Bhatt NK, Thakore BY	Collective Modes of Ti ₄₄ Zr ₂₀ V ₁₂ Cu ₅ Be ₁₉ Bulk metallic glass	Proc. Nat conf. on emetrengtch and manage			February, 2014	National	978-81-923049-9-1	N	-	-

203	Patel AB, Bhatt NK, Thakore BY, Vyas PR, Jani AR	Temperature Dependent Atomic Transport Properties of Liquid Rb	Physics and Chemistry of liquids			February, 2014	International	0031-9104	Y	0.78	0
204	Pandya SH, Joshiyura KN	Ionization of metastable nitrogen and oxygen atoms by electron impact: Relevance to auroral emissions	Journal of Geophysical Research: Space Physics	119	2263– 2268,	25 march 2014	International	2169-9402	Y	3.44	0
205	Vahora AY, Chaudhari PC, Joshi RH, Bhatt NK, Thakore BY	Shock Hugoniot Phase transition of SiC	AIP Conf. Proc. – DAE SSP			April, 2014	International	0094243x	Y	-	1
206	Chaudhari PC, Vahora AY, Thakore BY, Joshi RH, Jani AR	Collective Modes of Ti60Zr16V9Cu3Al3Be9 Bulk metallic glass	AIP Conf. Proc. – DAE SSP			April, 2014	International	0094243x	Y	-	0
207	Bhatt NK, Patel AB, Thakore BY, Vyas PR, Jani AR	The Electrical Transport Properties of Liquid Rb using Pseudopotential theory	AIP Conf. Proc. – DAE SSP			April, 2014	International	0094243x	Y	-	0
208	Patel Shahera S., Patil DR, Brahmbhatt BH	Design of low cost temperature controller for high temperature furnaces used in crystal growth	International journal of research in engineering and	3(3)	187- 192	May, 2014	International	e2319- 1163 p2321- 7308	-	-	-

			technolog y								
209	Vinodkumar M, Limbachiya C, Desai H, Vinodkumar PC	Electron-impact total cross sections for phosphorous triflouride	Physical Review A	89	062715	June, 2014	International	1094-1622	Y	3.042	4
210	Patel Shahera S., Patil DR, Brahmhatt BH	Development of microcontroller based low cost pH meter	Internatio nal journal of basic and applied research	04	297-300	2014	International	2249-3352	-	-	-
211	Patel UR, Joshipura KN, Kothari HN, Pandya SH	Electron ionization of open/closed chain isocarbonic molecules relevant in plasma processing: Theoretical cross sections	The J. Chemical Physics	140	044302	2014	International	0021-9606	Y	2.95	1
212	Deshpande MP, Bhatt SV, Sathe VG, Rao R, Chaki SH	Pressure and temperature dependence of Raman Spectra and their anharmonic effects in Bi ₂ Se ₃ single crystal	Physica B	433	72-78	2014	International	0921-4526	Y	1.319	3
213	Bhatt SV, Deshpande MP, Soni BH, Garg N, Chaki SH	Chemical bath deposition of Lead sulphide (PbS) thin film and their characterization	Solid State Phenomena	209	111-115	2014	International	1662-9779	Y		3
214	Dodia KJ, Oza AT	FTIR Spectroscopy of Hydrogen Bonded	Mol. Cryst. Liq.	592	1-27	2014	International	1542-1406	Y	0.58	-

		Cu(N-R-Salim) ₂ Dye Complexes	Cryst.								
215	Trivedi Parimal, Bhavsar DN, Sunil Chaki, Patel RG, Oza AT	Spectroscopy of Charge Transfer Complexes of Aniline Blue	Mol. Cryst. Liq. Cryst.	592	183-198	2014	International	1542-1406	Y	0.58	-
216	Deshpande MP, Sakariya PN, Bhatt SV, Garg N, Patel KR, Chaki SH	Characterization of Bi ₂ S ₃ nanorods prepared at room temperature	Materials Science in Semiconductor Processing	21	180-185	2014	International	1369-8001	Y	1.806	4
217	Chaki SH, Deshpande MP, Tailor JP	Characterization of CuS nanocrystalline thin films synthesized by chemical bath deposition and dip coating techniques	Thin Solid Films	550	291-297	2014	International	0040-6090	Y	1.922	15
218	Kotadia DA, Patel UH, Gandhi SA, Soni SS	1. Pd doped SiO ₂ nanoparticles: an efficient recyclable catalyst for Suzuki, Heck and Sonogashira reactions.	RSC Adv.	4	32826-32833.	2014	International	2046-2069	Y	3.84	02
219	Kadash EA, Hattami Arwa A Al, Rathod JR, Patel KD, Pathak VM	Synthesis and characterization of cadmium sulphide crystals grown by DVT technique	Int. J. Pure & Appl. Sciences & Technol.	22 (1)	18-26	2014	International	2229-6107	-	-	-

220	Patel UH, Patel BD, Shah DA	Theoretical approach to the crystal structure of 2-Amino-1-(4-methoxyphenyl)-5-oxo-4,5-dihydro-1H-pyrrole-3-carboxylic acid ethyl ester	International Journal of Applied Sciences and Engineering, Research	2 (4)	879-888	2014	International	2277-9442	Y	--	00
July-2014 to June-2015											
221	Shah M, Patel B, Vinodkumar PC	Mass spectra and decay properties of Ds meson in a relativistic Dirac formalism	Physical Review D	90	014009	July, 2014	International	1550-7998	Y	4.691	7
222	Patel S, Shah M, Vinodkumar PC	Mass spectra of four-quark states in the hidden charm sector	Eur. Journal of Phys. A	50	131	August, 2014	International	1434-601X	Y	2.736	8
223	Solanki GK, Gosai NN, Patel KD, Patel RB, Hingrajiya K	Structural, optical and dielectric properties of tin selenide nanoparticles prepared by aqueous solution method	International Journal of Emerging Technology and Advanced Engineering	4 (9)	757-762	September, 2014	International	2250-2459	Y	0.675	-
224	Gandhi JR, Jha SN, Jha HS, Gandhi SJ	Dual application wind mill for on-grid and off-grid applications	Int. J. Emerging Techn. & Research	1 (6)	74-78	September, 2014	International	2347-6079		0.997	
225	Limbachiya Chetan,	Electron-impact total cross sections for	Molecular Physics:	113	55-62	15 October	International	0026-8976	Y	1.72	1

	Minaxi Vinodkumar, Swadia Mohit, Joshipura KN, Nigel Masone	inelastic processes for furan, tetrahydrofuran and 2,5-dimethylfuran	An International Journal at the Interface Between Chemistry and Physics			, 2014					
226	Vinodkumar PC	Heavy flavor hadron Spectroscopy: An overview	Pramana, J. Phys.	83	773-782	November, 2014	International	0973-7111	Y	0.649	-
227	Gandhi JR, Jha SN, Jha SH, Gandhi SJ	Design, development and performance evaluation of universal auto dual axial tracking system	Int. J. Engg. And Technical Research	2 (11)	236-239	November, 2014	International	2454-4698		2.19	-
228	Bhatia KG, Bhatt NK, Vyas PR, Gohel VB	The t-matrix resistivity of liquid rare earth metals using pseudopotential,	AIP Conference Proceedings		p. 110014	December, 2014	International	0094243x	Y	-	0
229	Vinodkumar PC, Desai H, Vinodkumar PC	Electron induced chemistry of thiophene	RSC Advances	31	24564-24574	January, 2015	International	2046-2069	Y	3.708	2
230	Solanki GK, Patel RB, Gosai NN, Patel KD	Synthesis and dielectric properties of tin selenide nanoparticles	ISST Journal of Applied Physics	6 (1)	78-81	December, 2015	National	0976-903X	N	2.183	-
231	Solanki GK, Gosai NN,	Structural and thermal properties of Cu doped	ISST Journal of	6 (1)	62-66	July-December	National	0976-903X	N		-

	Patel KD	tin selenide nanoparticles	Applied Physics			ber, 2015					
232	Solanki GK, Patel RB, Gosai NN, Patel KD, Patel VM	Structural, optical and dielectric properties of tin selenide nanoparticles prepared by chemical precipitation method	ISST Journal of Applied Physics	6 (1)	70-72	December, 2015	National	0976-903X	N	2.183	-
233	Chaudhari PC, Joshi RH, Bhatt NK, Thakore BY	Electrical transport properties of amorphous Ni ₃₂ Pd ₅₃ P ₁₅ alloy	AIP Conference Proceedings	1675	p. 020006	March, 2015	National	0094243x	Y	-	
234	Kumar Priyank, Bhatt NK, Vyas PR, Gohel VB,	Theoretical study of pressure dependence of transition temperature of In and Pb	AIP Conference Proceedings	1675	p. 020001	March, 2015	National	0094243x	Y	-	0
235	Solanki GK, Chauhan IL, Patel KD	Microtopography, optical and photoelectrochemical studies of SnSeNi _{0.1}	International Journal of Advance Research in Sciences and Engineering	4 (1)	47-51	March 2015	International	2319-3854	Y	1.142	-
236	Solanki GK, Patel RB, Gosai NN	Structural and thermal properties of iron doped SnSe nanoparticles	International Journal of	5 (4)	142-147	April, 2015	International	2250-2459	Y	2.324	-

			Emerging Technology and Advanced Engineering								
237	Solanki GK, Patel RB, Gosai NN, Patel VM	Growth and applications of GeSeFe _{0.02} single crystal in photoelectrochemical solar cell	International Journal of Emerging Technology and Advanced Engineering	5 (4)	178-183	April, 2015	International	2250-2459	Y	2.324	-
238	Mishra PH, Lohani A K, Patel R, Solanki GK, Krishnakumar, Menon SR, Sekhar BR	Electronic structure of germanium selenide investigated using ultra-violet photo-electron spectroscopy	Semiconductor Science and Technology	30	1-8	9 th June, 2015	International	1361-6641	Y	2.19	-
239	Zhao Zhao1, Haijun Zhang, Hongtao Yuan, Shibing Wang, Yu Lin, Qiaoshi Zeng, Gang Xu, Zhenxian Liu, Solanki GK, Patel	Pressure induced metallization with absence of structural transition in layered molybdenum diselenide	Nature Communications	6	1-8	19 June, 2015	International	2041-1723	Y	11.470	-

	KD, YiCui, Harold Y. Hwang, Wendy L. Mao										
240	Vinodkumar M, Limbachiya C, Desai H, Vinodkumar PC	Electron induced chemistry for acetaldehyde	RSC Advances	85	69466- 69478	August, 2015	Internationa l	2046-2069	Y	3.804	1
241	Gandhi JR, Jha SN	Performance evaluation of solar power plant (1.5 KWh) with dual axial tracking system	Int. J. Engg. Research and Managem ent	2 (12)	28-31	Decem ber, 2015	Internationa l	2349-2058		2.37	
242	Joshi RH, Satikunvar DD, Bhatt NK, Thakore BY, Jani AR	Lattice Dynamics and Thermophysical Properties of Na ₂ O at High Temperature	Physica B	405	2065- 2071	2010	Internationa l	0921-4526	N	-	-
243	Patel UH, Gandhi SA, Barot VM, Patel MC	A Comparative Study of Novel Chalcone Derivative by X-ray and Quantum Chemical Calculations (Ab-initio and DFT): Experimental and Theoretical Approach	Molecular Crystal and Liquid Crystal		-	2015	Internationa l	1563-5287	Y	--	11
244	Tailor SM, Patel UH	Synthesis, spectroscopic characterization,	Journal of Molecular	1088	161- 168	2015	Internationa l	0022-2860	Y	1.602	02

		antimicrobial activity and crystal structure of [Ag ₂ (C ₁₀ H ₁₀ N ₃ O ₃ S) ₂ (C ₅ H ₅ N) ₃].	Structure								
245	Tailor SM, Patel UH	Synthesis, spectroscopic characterization, antimicrobial activity and crystal structure of silver and copper complexes of sulfamethazine	Journal of Coordination Chemistry	68	2192-2207	2015	International	1029-0389	Y	2.012	04
246	Patel TS, Vanparia SF, Gandhi SA, Patel UH, Dixit RB, Chudasama CJ, Dixit BC	Novel stereoselective 2,3-disubstituted quinazoline-4(3H)-one derivatives derived from glycine as a potent antimalarial lead	New Journal of Chemistry	39	8638-8649	2015	International	11440546, 13699261	Y	3.086	00
247	Tailor SM, Patel UH	Hirshfeld surface analysis of sulfamer (polymorph III), sulfamer dioxane solvate and sulfamer tetrahydrofuran solvate	Acta Crystallographica C	C71	944-953	2015	International	2053-2296	Y	0.326	00
248	Tailor SM, Patel UH	Synthesis, crystal structure, Hirshfeld analysis and spectral properties of cadmium and mercury complexes of sulfadiazine	Journal of Coordination Chemistry	communicated	-	2015	International	1029-0389	Y	2.012	-
249	Rathod PI, Oza AT	Infrared spectroscopy of charge transfer	Mol. Cryst. Liq.	Vol 623	310-318,	2015	International	1542-1406	Y	0.58	-

		complexes of D-Luciferin	Crystal,								
250	Agarwat SM, Jain VR, Oza AT	Spectroscopic analysis and charge transport properties of pinacyanol chloride-organic acceptor as potential optoelectronic material.	Amer. J. Anal. Chem.	6	694-707	2015	International	2156-8251	Y	1.10	-
251	Bhatt NK, Jani AR, Vyas PR	Thermal Properties of Copper along Shock Hugoniot	Proc. of National Conf. on Emerging Trends in Engineering, Technology and Management, Indus,			2015	National		N	-	-